



## Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200

Lo-Phos Max

October 1, 2013

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 PRODUCT IDENTIFIER

Product/Trade Name: Lo-Phos Max (MAX006/MAX007)

#### 1.2 INTENDED USE OF THE PRODUCT

Precipitation and removal of phosphates from water.

#### 1.3 NAME, ADDRESS, TELEPHONE OF MANUFACTURER

Lo-Chlor L.L.C.  
5841 Powerline Road, Suite 202  
Ft. Lauderdale, FL 33309  
800-491-9810  
Fax: 954-491-2311  
www.lo-chlor.com

#### 1.4 EMERGENCY TELEPHONE NUMBER

Emergency number: 1-800-424-9300  
For chemical emergency, spill, leak, fire, exposure, or accident, call Chemtrec, day or night

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

##### GHS-US Classification:

H315 Causes skin irritation.  
H335 May cause respiratory irritation.  
H320 Causes eye irritation.

#### 2.2 LABEL ELEMENTS

##### GHS-US Label Elements

##### Hazard pictograms (GHS-US)



GHS07 Warning

**Signal word:** Warning

##### Hazard statements:

H315 Causes skin irritation.  
H320 Causes eye irritation.  
H335 May cause respiratory irritation.



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### Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing dust/fumes/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ International regulations.

### 2.3 OTHER HAZARDS

#### Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 CHEMICAL CHARACTERIZATION

Mixtures

Chemical Name	Product Identifier	%	GHS-US classification
Trade Secret		40-60 %	H315, H335, H320

## SECTION 4: FIRST-AID MEASURES

### 4.1 DESCRIPTION OF FIRST-AID MEASURES

**First-aid measures general:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid after inhalation:** Supply fresh air; consult doctor in case of complaints. If breathing is difficult, have trained personnel administer oxygen. Get medical attention immediately.

**First-aid after skin contact:** Immediately rinse with water. Remove any contaminated clothing and wash before reuse. Get medical attention if irritation develops.

**First-aid after eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation occurs.

**First-aid after swallowing:** May be harmful if swallowed. May cause irritation of the digestive tract. Get medical attention immediately.

### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS/BOTH ACUTE AND DELAYED

No further relevant information available.



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### 4.3 INFORMATION FOR DOCTOR

Treat symptomatically and supportively. No specific antidote. Lanthanides, because of their high densities, may produce striking abnormalities on chest x-rays. Lanthanides generally are not believed to be fibrogenic and lesions typically have little or no clinical significance. Occasionally cases of suspected pneumoconiosis have been reported.

### 4.4 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION/SPECIAL TREATMENT NEEDED

If medical advice is needed have product container or label at hand.  
No further relevant information available.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA

**Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hydrogen chloride (HCl) may be released in case of fire.

### 5.3 ADVICE FOR FIREFIGHTERS

**Protective equipment:** Exercise caution when fighting any chemical fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

**General measures:** Isolate area. Keep unnecessary personnel away. Keep out of low areas. Ventilate closed spaces before entering. Use appropriate personal protection equipment (PPE). Handle in accordance with good industrial hygiene and safety practices.

### 6.2 ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Absorb and/or contain spills with liquid-binding material like sand, diatomite, acid binders, universal binders or sawdust to soak up the product and place into a container for later disposal. Dispose of contaminated material as waste according to Section 13. Ensure adequate ventilation.

### 6.4 REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling.  
See Section 8 for information on exposure control and personal protection equipment.  
See Section 13 for disposal information.



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### SECTION 7: HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Precautions for safe handling:** Open and handle receptacle with care. Avoid contact with skin and eyes. Ensure good ventilation at the workplace. Prevent formation of aerosols.

**Hygiene measures:** Use appropriate personal protection equipment (PPE). Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage conditions:** Keep receptacle tightly sealed. Keep separated from incompatible substances: oxidizers, acids, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys.

**Incompatible products:** Oxidizers, acids, and active metals.

**Incompatible materials:** No further relevant information available.

#### 7.3 SPECIFIC END USE(S)

No further relevant information available.

### SECTION 8: EXPOSURE CONTROLS/CHEMICAL PROPERTIES

#### 8.1 CONTROL PARAMETERS

**Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists that were valid during the creation were used as a basis.

#### 8.2 EXPOSURE CONTROLS

**Appropriate engineering controls:** Provide adequate ventilation or other engineering controls. Eyewash stations and safety showers are recommended in the work-station location.

**Personal protective equipment:**



**Hand protection:** Wear chemically resistant protective gloves.

**Eye protection:** Goggles recommended during refilling.

**Skin and body protection:** Wear suitable protective clothing.

**Respiratory protection:** If irritation is experienced, use respiratory filter device.

**General protection:** When using, do not eat, drink or smoke. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.



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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Liquid
Appearance	:	Translucent liquid
Color	:	yellowish
Odor	:	None
Odor threshold	:	Not determined
pH	:	5.0 – 5.5
Melting point	:	Not determined
Freezing point	:	24°F
Boiling point	:	216 °F
Flash point	:	Not applicable
Auto-ignition temperature	:	Product is not self-igniting
Decomposition temperature	:	Not determined
Flammability (solid, gaseous)	:	Not applicable
Specific gravity	:	1.35 – 1.4
Solubility	:	Fully miscible
Solid contents	:	60.0%

#### 9.2 OTHER INFORMATION

No further relevant information available.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 REACTIVITY

No dangerous reactions known.

#### 10.2 CHEMICAL STABILITY

Product is stable under normal conditions.

#### 10.3 THERMAL DECOMPOSITION/CONDITIONS TO AVOID

No decomposition if used according to specifications.

#### 10.4 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known.

#### 10.5 CONDITIONS TO AVOID

No further relevant information available.

#### 10.6 INCOMPATIBLE MATERIALS

Keep separated from incompatible substances: Oxidizers, acids, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys.

#### 10.7 HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen chloride (HCl)

Metal oxide



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### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity:

LD/LC50 values that are relevant for classification:		
Trade Secret		
Oral	LD50	4184 mg/kg (rat)

#### 11.2 PRIMARY IRRITANT EFFECT

**On the skin:** May cause skin and mucous membrane irritation.

**On the eye:** May cause eye irritation.

**Sensitization:** No sensitizing effects known.

#### 11.3 ADDITIONAL TOXICOLOGICAL INFORMATION

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

#### 11.4 CARCINOGENIC CATEGORIES

**IARC (International Agency for Research on Cancer):** None of the ingredients is listed.

**NTP (National Toxicology Program):** None of the ingredients is listed.

#### 11.5 SIGNS AND SYMPTOMS OF EXPOSURE

Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 TOXICITY

Aquatic toxicity:	
Trade Secret	
EC50	0.043 mg/kg (daphnia)

#### 12.2 PERSISTENCE AND DEGRADABILITY

No further relevant information available.

#### 12.3 BIOACCUMULATIVE POTENTIAL

No further relevant information available.

#### 12.4 MOBILITY IN SOIL

No further relevant information available.

#### 12.5 ADDITIONAL ECOLOGICAL INFORMATION

**General notes:** Water hazard class 1 (Self-assessment): Slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### 12.6 OTHER ADVERSE EFFECTS

No further relevant information available.



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### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 WASTE TREATMENT METHODS

**Waste disposal recommendations:** Dispose of contents/container in accordance with local, regional, and national regulations. Do not allow product to reach sewage system.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 UN NUMBER

Non-hazardous

#### 14.2 PROPER SHIPPING NAME

DOT Non-regulated material  
ADR  
IATA  
IMDG

#### 14.3 DOT PACKING GROUP

Not applicable

#### 14.4 HAZARD CLASS

Not applicable

### SECTION 15: REGULATORY INFORMATION

#### 15.1 SARA

**Section 355 (Extremely hazardous substances):** None of the ingredients is listed.

**Section 313 (Specific toxic chemical listings):** None of the ingredients is listed.

#### 15.2 TSCA (Toxic Substances Control Act)

All ingredients are listed.

#### 15.3 PROPOSITION 65

**Chemicals known to cause cancer:** No ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:** No ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:** No ingredients are listed.

**Chemicals known to cause developmental toxicity:** No ingredients are listed.

#### 15.4 CARCINOGENIC CATEGORIES

**EPA (Environmental Protection Agency):** No ingredients are listed.

**TLV (Threshold Limit Value established by ACGIH):** No ingredients are listed.

**NIOSH-Ca(National Institute for Occupational Safety and Health ):** No ingredients are listed.

**OSHA-Ca (Occupational Safety and Health Administration):** Corrosive to eyes.



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### SECTION 16: OTHER INFORMATION

#### 16.1 CLASSIFICATION SYSTEM

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

##### NFPA ratings (0-4)



Health = 2

Fire = 0

Reactivity = 0

##### HMIS-ratings (scale 0 - 4)

HEALTH	2
FIRE	0
REACTIVITY	0

Health = 2

Fire = 0

Reactivity = 0

This information is based on our present knowledge and on data considered to be accurate. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the user thereof. Lo-Chlor L.L.C assumes no responsibility for personal injury or property damage to users or third parties caused by the material. User assumes all risks associated with the use of this material.